AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1. (Currently Amended) A base station using direct sequence spread spectrum (DS) connected to a wired LAN (Local Area Network), comprising:

a wired communication unit connected to said wired LAN;

a wireless communication unit that communicates with a LAN terminal via a radio wave; ~~and~~

a controller that detects a first device issuing a radio wave in a first frequency band, said first device being in a coverage area of the base station~~,~~; and

a memory storing location information representing overlapping coverage areas with other adjacent wireless stations;

wherein said controller, when said first device is detected, updates said location information memory and sets up a second frequency band ~~as a band to be used~~ as an available band, said second frequency band being different from said first frequency band, based on the information stored in said location information memory and transmits the information of said location information memory to another base station adjacent to said base station.

2. (Original) The base station according to claim 1, wherein said first device is another base station connected to the wired LAN.

3. (Original) The base station according to claim 2, wherein said controller sends a radio signal in the second frequency band, which has been set up, to said another base station.

4. (Original) The base station according to claim 1, wherein said first device is a wireless terminal that communicates, via a radio wave, with another base station connected to said wired LAN.

5. (Original) The base station according to claim 4, wherein said controller sends a radio signal in the second frequency band, which has been set up, to said another base station.

6. (Original) The base station according to claim 1, further comprising:

a storage unit in which various types of information is stored,

wherein said controller creates communication status information on the first frequency band and said storage unit stores therein the communication status information.

7. (Cancelled)

8. (Currently Amended) A base station comprising:

a wired interface connected to a wired LAN;

a wireless interface that communicates with ~~other~~ wireless terminals; ~~and~~

a controller that detects a surrounding communication environment using said wireless interface~~,~~; and

a memory storing location information representing overlapping coverage areas with other adjacent wireless stations;

wherein said controller, in response to a result of detecting the surrounding communication environment, updates said location information memory and sends information ~~on a first~~ on an initial frequency band ~~to be used~~ to another wireless device in the surrounding communication environment and the information of said location information memory detected by said controller, said ~~first~~ initial frequency band being set up by said controller.

9. (Currently Amended) The base station according to claim 8, wherein said controller resets the ~~first~~ initial frequency band ~~to be used is reset~~ to another ~~a second~~ frequency band ~~to be used~~ in response to a request from said another ~~an other~~ wireless device.

10. (Currently Amended) The base station according to claim 8, wherein said base station sends the information on the ~~first frequency band to be used~~ initial frequency band to the ~~an other~~ another wireless device according to a predetermined priority, said information being set up by said base station.

11. (Currently Amended) A method for setting up ~~a frequency band to be used~~ an available frequency band for use in a first base station which comprises a wired communication unit connected to a wired LAN and a wireless communication unit communicating with a first wireless terminal via a radio wave, said method comprising the steps of:

checking ~~if~~, with the use of said wireless communication unit, if there is a first device that outputs a radio wave in a wireless coverage area of said first base station; and

if there is the first device, updating location information representing overlapping coverage areas with adjacent base stations and setting up a frequency band, which is different from the frequency band of the radio wave output by said first device, as the frequency band ~~to be used~~ for use by said first base station.

12. (Original) The method for setting up a frequency band to be used according to claim 11, wherein the first device is a second base station connected to the wired LAN.

13. (Currently Amended) The method for setting up a frequency band to be used according to claim 12, further comprising the step of sending information on the frequency band to be used that is set in the second base station and the information of said location information memory.

14. (Original) The method for setting up a frequency band to be used according to claim 11, wherein said first device is a wireless terminal that communicates, via radio waves, with other base stations connected to the wired LAN.

15. (Original) The method for setting up a frequency band to be used according to claim 14, further comprising the step of sending information on the frequency band to be used that is set in the second base station.

16. (Original) The method for setting up a frequency band to be used according to claim 11, further comprising the steps of:

creating communication status information on the first frequency band by a controller of the first base station; and

storing the communication status information in a storage unit of the first base station,

wherein the second frequency band is set up as the frequency band to be used according to the communication status information.

17. (Original) The method for setting up a frequency band according to claim 11, wherein the method is used by said wireless communication unit that communicates with the wireless terminal in a direct sequence method.

18. (Currently Amended) A base station connected to a wired LAN, comprising:

a wired communication unit connected to the wired LAN;

a wireless communication unit that communicates with a LAN terminal via radio waves using direct sequence spread spectrum; and

~~a controller that creates first information on a first frequency band for use in communicating with the LAN terminal and second information on the LAN terminal,~~

a memory recording setup information of a frequency band communicating with said wireless terminal and location information representing overlapping coverage areas with other

adjacent wireless stations;

wherein when said controller detects said first device using a first frequency band, said controller updates said location information memory and sets up a second frequency band as a band for use by said base station, said second frequency band being different from said first frequency band, based on the information stored in said location information memory and transmits the information of said location information memory to another base station adjacent to said base station;

wherein the setup information and the location information recorded in said memory are sent to another wireless base station connected to the wired LAN~~base station sends the first information and the second information to another base station connected to the wired LAN~~.

19. (Currently Amended) For use in a base station which comprises a wired connection unit connected to a wired LAN and a wireless communication unit communicating with a LAN terminal via radio waves using direct sequence spread spectrum, a method for setting up a frequency band of radio waves to be used by said wireless communication unit, said method comprising the steps of:

finding frequency bands which belong to a predetermined plurality of frequency bands and which are already used by other devices in a place where the base station is installed; ~~and~~

setting up a frequency band not used by the other devices as a frequency band ~~to be~~ for use ~~used~~ by the wireless communication unit; and

creating, based on a result of said finding step, a table including location information representing overlapping coverage areas with adjacent other wireless communication units and frequency bands to be used by said other communication units and holding the created table.

20. (Original) The method for setting up a frequency band to be used by a base station according to claim 19, wherein said step of finding frequency bands is executed by said wireless communication unit scanning the radio waves of the plurality of frequencies for detecting frequency bands used.

21-22 (Cancelled)

23. (Original) The method for setting up a frequency band to be used by a base station according to claim 22, further comprising the step of sending said table to other base stations connected to said wired LAN.

24. (Original) The method for setting up a frequency band to be used by a base station according to claim 23, wherein the base station updates the table thereof based on the table received from some other base stations.

25. (Original) The method for setting up a frequency band to be used by a base station according to claim 19, wherein said plurality of frequency bands are 13 frequency bands ranging from 2.4G Hz to 2.947G Hz.

26. (Original) The method for setting up a frequency band to be used by a base station according to claim 19, further comprising the step of, when it is found in said step of finding frequency bands that the predetermined plurality of frequency bands are all used by other devices, indicating that there is no frequency band available to the base station.

27. (Original) The method for setting up a frequency band to be used by a base station according to claim 26, wherein a fact that there is no available frequency band is visually output.

28. (Original) The method for setting up a frequency band to be used by a base station according to claim 19, wherein, if it is found that, after setting up a frequency band to be used by the base station in said step of setting up a frequency band, there is another device using the frequency band, the frequency band to be used is changed to another frequency band.

29. (Currently Amended) For use in a base station which comprises a wired connection unit connected to a wired LAN and a wireless communication unit communicating with a LAN terminal via radio waves using direct sequence spread spectrum, a method for setting up a frequency band of radio waves to be used by said wireless communication unit, said method comprising the steps of:

finding a first frequency band which belongs to a predetermined plurality of frequency bands and which is not used by other devices in a place where the base station is installed; ~~and~~

setting up the first frequency band as a frequency band to be used by the wireless communication unit; and

creating, based on a result of said finding step, a table including location information representing overlapping coverage areas with adjacent other wireless communication units and frequency bands to be used by said other communication units and holding the created table.

30. (Cancelled)

31. (Original) The method for setting up a frequency band to be used by a base station according to claim 29, further comprising the step of creating and retaining a table based on a result of said step of finding a frequency band, said table containing at least information identifying the other devices that were found and frequency bands to be used by the devices.

32. (Original) The method for setting up a frequency band to be used by a base station according to claim 29, wherein the plurality of frequency bands are 13 frequency bands ranging from 2.4G Hz to 2.947G Hz.

33. (Original) The method for setting up a frequency band to be used by a base station according to claim 29, further comprising the step of, when it is found in said step of finding a frequency band that the predetermined plurality of frequency bands are all used by other

devices, indicating that there is no frequency band available to the base station.

34. (Original) The method for setting up a frequency band to be used by a base station according to claim 33, wherein a fact that there is no available frequency band is visually output.

35. (Original) The method for setting up a frequency band to be used by a base station according to claim 29, wherein, if it is found that, after setting up a frequency band to be used by the base station in said step of setting up a frequency band, there is another device using the frequency band, the frequency band to be used is changed to another frequency band.

36. (Currently Amended) For use in a base station which comprises a wired connection unit connected to a wired LAN and a wireless communication unit communicating with a LAN terminal via radio waves using direct sequence spread spectrum, a method for setting up a frequency band of radio waves to be used by said wireless communication unit, said method comprising the steps of:

finding frequency bands which belong to a predetermined plurality of frequency bands and which are received by other devices in a place where the base station is installed; ~~and~~

setting up a frequency band not used by the other devices as a frequency band to be used by the wireless communication unit; and

creating, based on a result of said finding step, a table including location information representing overlapping coverage areas with adjacent other wireless communication units and frequency bands to be used by said other communication units and holding the created table.